Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S78	0	"20040111437".pn. AND (database\$1)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 13:44
S77	1	"20040111437".pn. AND (process\$4 operator\$1)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 13:44
S80	2	"20040111437".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 15:36
S79	1	"20040111437".pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 15:36
S1	7768	document\$1 NEAR6 retriev\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 18:20
L3	3266	704/1-10.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 18:56
L1	2	"6714927".pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 18:56
L5	58	4 AND ((search\$3 quer\$4) NEAR4 document\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:05
L9	1	("5020019" "5535382" "6546383" "6714927" "7072889").pn. AND (retrieval NEAR4 tree\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:09
L8	2	("5020019" "5535382" "6546383" "6714927" "7072889").pn. AND tree\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:09

L7	1	("5020019" "5535382" "6546383" "6714927" "7072889").pn. AND tree\$1.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:09
L6	10	("5020019" "5535382" "6546383" "6714927" "7072889").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:12
L10	1	("5020019" "5535382" "6546383" "6714927" "7072889").pn. AND (distance\$1 proxim\$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:14
L11	9	(retriev\$3 WITH (condition\$1 NEAR4 tree\$1)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:16
L13	1988	(ngram\$1 n-gram\$1 bigram\$1 bi-gram\$1 tri-gram\$1 trigram\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:18
L4	380	(ngram\$1 n-gram\$1 bigram\$1 bi-gram\$1 tri-gram\$1 trigram\$1) AND 3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:18
L15	376	13 AND 14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:19
L14	14974	(707/2-3,101-102.ccls. 704/9.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:19
L18	26934	((search\$3 quer\$4 retriev\$4) NEAR4 document\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:20
L16	171	15 AND ((search\$3 quer\$4 retriev\$4) NEAR4 document\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:20

L20	20	19 AND (quer\$4 NEAR10 (pars\$4 divid\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:21
L17	4.	16 AND (condition\$1 NEAR4 (tree\$1 hierarc\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:21
L21	17	((condition\$1 NEAR4 tree\$1) AND document\$1).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:24
L12	3	((retriev\$3 WITH (condition\$1 NEAR4 tree\$1)) AND document\$1).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:24
L22	26	((condition\$1 NEAR4 (tree\$1 hierarc\$8)) AND document\$1).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:26
L25	6	24 AND (condition\$1 NEAR4 (tree\$1 hierarc\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:27
L24 .	446	13 AND 18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:27
L23	4	((condition\$1 NEAR4 (tree\$1 hierarc\$8)) AND document\$1).clm. AND ((divid\$4 pars\$3) WITH quer\$4).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:27
L19	140	18 AND (condition\$1 NEAR4 (tree\$1 hierarc\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:27
S68	0	(ngram\$1 n-gram\$1 bigram\$1 bi-gram\$1 tri-gram\$1 trigram\$1) AND (distance NEAR2 operator\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:32

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Integrating document and data retrieval based on XML

Jan-Marco Bremer, Michael Gertz

January 2006 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 15 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(841.10 KB) Additional Information: full citation, abstract

For querying structured and semistructured data, data retrieval and document retrieval are two valuable and complementary techniques that have not yet been fully integrated. In this paper, we introduce integrated information retrieval (IIR), an XML-based retrieval approach that closes this gap. We introduce the syntax and semantics of an extension of the XQuery language called XQuery/IR. The extended language realizes IIR and thereby allows users to formulate new kinds of queries by nesting rank ...

Keywords: Data retrieval, Document retrieval, Index structures, Integrated information retrievals, Structural join, XML

2 A tree algorithm for nearest neighbor searching in document retrieval systems



Caroline M. Eastman, Stephen F. Weiss

May 1978 ACM SIGIR Forum, Proceedings of the 1st annual international ACM SIGIR conference on Information storage and retrieval SIGIR '78, Volume 13 Issue 1

Publisher: ACM Press

Full text available: pdf(651.08 KB)

Additional Information: full citation, abstract, references, citings, index

The problem of finding nearest neighbors to a query in a document collection is a special case of associative retrieval, in which searches are performed using more than one key. A nearest neighbors associative retrieval algorithm, suitable for document retrieval using similarity matching, is described. The basic structure used is a binary tree, at each node a set of keys (concepts) is tested to select the most promising branch. Backtracking to initially rejected branches is allowed and ofte ...

3 Information access and retrieval: A structured documents retrieval method supporting



attribute-based structure information Seung-Kyu Ko, Yoon-Chul Choy

March 2002 Proceedings of the 2002 ACM symposium on Applied computing

Publisher: ACM Press



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1 Extended path expressions of XML



Makoto Murata

May 2001 Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems

Publisher: ACM Press

Full text available: pdf(597 98 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Query languages for XML often use path expressions to locate elements in XML documents. Path expressions are regular expressions such that underlying alphabets represent conditions on nodes. Path expressions represent conditions on paths from the root, but do not represent conditions on siblings, siblings of ancestors, and descendants of such siblings. In order to capture such conditions, we propose to extend underlying alphabets. Each symbol in an extended alphabet is a triplet (e

2 Electronic document technology: On merging structured documents with move operation



Nobutaka Suzuki, Yorichiro Sato, Michiyoshi Hayase

September 2003 Proceedings of the 1st international symposium on Information and communication technologies ISICT '03

Publisher: Trinity College Dublin

Full text available: pdf(191.33 KB) Additional Information: full citation, abstract, references

We consider merging structured documents, which is to transform given two distinct documents into isomorphic ones. Such merging is essential to synchronizing several copies of a document concurrently edited by several clients. Two documents, treated as ordered trees, are merged by applying a *merge script* consisting of *add*, *del*, *upd*, and *move* operations to the documents. We prove that the corresponding decision problem to finding an optimum merge script is NP-complete. Then, ...

Poster session: Index compression vs. retrieval time of inverted files for XML



documents

Norbert Fuhr, Norbert Gövert

November 2002 Proceedings of the eleventh international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(55,60 KB)

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Technique for automatically correcting words in text

 \mathbf{v}

Karen Kukich

December 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 4

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Publisher: ACM Press

Full text available: pdf(6.23 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient patternmatching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statisticallanguage models, word recognition and correction

XIRQL: An XML guery language based on information retrieval concepts Norbert Fuhr, Kai Großjohann



Publisher: ACM Press

Full text available: pdf(281.91 KB)

Additional Information: full citation, abstract, references, citings, index terms

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document ranking based on index term weighting, (2) specificity-oriented search for retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates



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2. From paragraph networks to document networks

Jinghao Miao; Berleant, D.;

Information Technology; Coding and Computing, 2004. Proceedings. ITCC 200

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Digital Object Identifier 10.1109/ITCC.2004.1286469

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3. Graph structures in paragraph-linked repositories

Jinghao Miao;

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